

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): Dose indicator (A) for fluid product dispensing device (B) comprising at least one rotary counting means (10) which can be moved in rotation, said at least one counting means comprising indication means (15) indicating the number of doses dispensed or remaining to be dispensed, said at least one counting means being actuated by an actuating member (35) itself actuated by a transmission element (34) adapted to cooperate with a moving part (54) of said dispensing device on each actuation thereof, wherein said dose indicator comprises amplification means adapted to amplify the movement of said transmission element (34) on each actuation, so that the movement of said actuating member (35) is greater than the movement of said transmission element (34).

2. (original): Indicator as in claim 1, wherein said at least one rotary counting means comprises a rotary counting wheel (10) comprising cogging (19), said cogging (19) cooperating with actuating means (31,34,35) adapted to cause said rotary wheel (10) to rotate, said actuating means comprising a flexible lug (31) comprising a first flexible lug part (32) and a second flexible lug part (33) more rigid than the first lug part (32), the first lug part (32) bearing an actuating tooth (35) adapted to cooperate with cogging (19) of said rotary counting wheel (10) on each actuation of the device, the second lug part (33) bearing the transmission element (34) adapted to cooperate with said fluid product dispensing device (B) whenever it is actuated, the second lug part (33) being attached firstly to said first lug part (32) and secondly to said

transmission element (34) resulting in an amplified movement of said actuating tooth (35) with respect to the movement of said transmission element (34).

3. (original): Indicator as in claim 2, wherein said flexible lug (31) is joined to a ring (30) surrounding said cogging (19), said flexible lug (31) coming to cooperate with said cogging (19) whenever a dose is dispensed.

4. (original): Indicator as in claim 3, wherein said ring (30) comprises anti-reverse means (36, 37) preventing said rotary disc (10) from rotating in the opposite direction to the direction induced by said flexible lug (31).

5. (previously presented): Indicator as in claim 3, wherein said ring (30) comprises an abutment (39) adapted to cooperate with a locking element (38) joined to said flexible lug (31) to limit the rotation of said rotary counting wheel (10).

6. (original): Indicator as in claim 5, wherein the second, more rigid lug part (33) is adapted so that it deflects on and after the time the locking element (38) is locked by the abutment means (39) of the ring (30).

7. (previously presented): Indicator as in claim 2, wherein the rotation of the rotary counting wheel (10) occurs at the start of the actuation distance of the fluid product dispensing device (B), the flexion of the second, more rigid lug part (33) enabling said actuation distance of

the fluid product dispensing device (B) to be completed up to its end despite locking of the locking element (38) by the abutment means (39).

8. (previously presented): Indicator as in claim 1, wherein said transmission element (34) is a shoulder joined to a flexible lug (31) and cooperating with the moving part (54) of the fluid product dispensing device (B) which is mobile during actuation.

9. (previously presented): Indicator as in claim 1, wherein the indicator (A) comprises a translatable member (20) which can be moved in translation, the indication means (15) cooperating with a display opening (25) provided in said translatable member (20), said rotary counting wheel (10) comprising a hollow profile (18) cooperating with a projection (28) of said translatable member (20), the shape of said hollow profile (18) being such that at least some rotations of said at least one counting means comprising a rotary counting wheel (10) give rise to translation of said translatable member (20), modifying the position of said translatable member (20) with respect to said counting wheel (10).

10. (original): Indicator as in claim 9, wherein said rotary counting wheel (10) and said translatable member (20) are arranged in a lid (40) comprising a display window (45) cooperating with the display opening (25) of the translatable member (20).

11. (original): Indicator as in claim 10, wherein the rotary counting wheel (10), the translatable member (20), the actuating means (31, 34, 35) and the lid (40) form a unit which can be assembled in a fluid product dispensing device (B).

12. (previously presented): Indicator as in claim 9, wherein said indication means (15) follow said hollow profile (18) at least in part.

13. (previously presented): Indicator as in claim 9, wherein the shape of said hollow profile (18) is irregular so that dose indication is progressive.

14. (previously presented): Indicator as in claim 9, wherein said hollow profile (18) is at least partly of spiral shape.

15. (previously presented): Indicator as in claim 1, wherein said indication means (15) are numbers and/or symbols.

16. (previously presented): Indicator as in claim 1, wherein said amplification means transform a translation movement, a , of the transmission element (34) into a rotary movement of the actuating member (35), the translation projection of said rotary movement being $\alpha \cdot a$, where $\alpha > 1$.

17. (original): Indicator as in claim 2, wherein said second flexible lug part (33) comprises an elastically deformable structure.

18. (original): Indicator as in claim 17, wherein said second flexible lug part (33) comprises two branches (33a, 33b) forming an ovoid structure having two opposite apexes

formed firstly by the transmission element (34) and secondly by the junction (J) with the first lug part (32), said ovoid structure able to be stretched by movement of said transmission element (34) and returning elastically to its rest position the transmission element is not urged anymore.

19. (previously presented): Fluid product dispensing device (B) comprising a product reservoir (51) and a dispensing member (52) such as a pump or valve mounted on said reservoir (51), characterized in that it comprises a dose indicator (A) as in claim 1.

20. (previously presented): Device as in claim 19, wherein the dose indicator (A) is actuated by the moving part (54) of the dispensing device (B) which is moved during actuation of device (B) and which cooperates with a transmission element (34) of said indicator (A).

21. (previously presented): Dose indicator for fluid product dispensing device comprising at least one rotary means which can be moved in rotation, said at least one rotary means being actuated by actuating means connected to a transmission element adapted to cooperate with a moving part of said dispensing device on each actuation thereof, wherein said dose indicator comprises amplification means adapted to amplify the movement of said transmission element on each actuation, so that the movement of said actuating means is greater than the movement of said transmission element.

22. (previously presented): Indicator as in claim 21, wherein said actuating means comprises a first flexible part and a second flexible part more rigid than the first flexible part, said first flexible part cooperating with said rotary means on each actuation of the device, the

second flexible part bearing the transmission element adapted to cooperate with said fluid product dispensing device when actuated.

23. (previously presented): Indicator as in claim 22, wherein said at least one rotary means comprises a rotary wheel comprising cogging, said cogging cooperating with actuating means adapted to cause said rotary wheel to rotate.

24. (previously presented): Indicator as in claim 23, wherein said actuating means comprise a flexible lug comprising a first flexible lug part and a second flexible lug part more rigid than the first lug part, the first lug part bearing an actuating tooth adapted to cooperate with cogging of said rotary wheel on each actuation of the device, the second lug part bearing the transmission element adapted to cooperate with said fluid product dispensing device when actuated, the second lug part being attached firstly to said first lug part and secondly to said transmission element resulting in an amplified movement of said actuating tooth with respect to the movement of said transmission element.

25. (previously presented): Indicator as in claim 24, wherein said flexible lug is joined to a ring surrounding said cogging, said flexible lug coming to cooperate with said cogging whenever a dose is dispensed.

26. (previously presented): Indicator as in claim 25, wherein said ring comprises anti-reverse means preventing said rotary wheel from rotating in the opposite direction to the direction induced by said flexible lug.

27. (previously presented): Indicator as in claim 25, wherein said ring comprises an abutment adapted to cooperate with a locking element joined to said flexible lug to limit the rotation of said rotary wheel.

28. (previously presented): Indicator as in claim 27, wherein the second, more rigid lug part is adapted to deflect on and after the time the locking element is locked by the abutment means of the ring.

29. (previously presented): Indicator as in claim 22, wherein the rotation of the rotary means occurs at the start of the actuation distance of the fluid product dispensing device, the flexion of the second, more rigid part enabling said actuation distance of the fluid product dispensing device to be completed.

30. (previously presented): Indicator as in claim 21, wherein said transmission element comprises a shoulder joined to a flexible lug and cooperating with the moving part of the fluid product dispensing device which is mobile during actuation.

31. (previously presented): Indicator as in claim 21, wherein said rotary means is arranged in a lid comprising a display window.

32. (previously presented): Indicator as in claim 31, wherein the rotary means, the actuating means and the lid form a unit which can be assembled in a fluid product dispensing device.

33. (previously presented): Indicator as in claim 21, wherein said amplification means transform a translation movement, a , of the transmission element into a rotary movement of the actuating means, the translation projection of said rotary movement being $\alpha \cdot a$, where $\alpha > 1$.

34. (previously presented): Indicator as in claim 22, wherein said second flexible part comprises an elastically deformable structure.

35. (previously presented): Indicator as in claim 34, wherein said second flexible part comprises two branches forming an ovoid structure having two opposite apexes formed firstly by the transmission element and secondly by the junction with the first flexible part, said ovoid structure able to be stretched by movement of said transmission element and returning elastically to a rest position when the transmission element is not urged anymore.

36. (previously presented): Fluid product dispensing device comprising a product reservoir and a dispensing member such as a pump or valve mounted on said reservoir, comprising a dose indicator as in claim 21.

37. (previously presented): Device as in claim 36, wherein the dose indicator is actuated by the moving part of the dispensing device which is moved during actuation of device and which cooperates with a transmission element of said indicator.

38. (previously presented): A dose indicator for fluid product dispensing device, the dose indicator comprising:

a rotary member rotatable about an axis; and

a disk member comprising a transmission element attached to a spring and positioned to engage the dispensing device and an actuation element attached to the spring at a location separate from the transmission element;

wherein movement of the transmission element moves the actuation element to incrementally rotate the rotary member; and

wherein the spring is shaped so that a given displacement of the transmission element causes a greater displacement of the actuation element.

39. (previously presented): The indicator as in claim 38, wherein the spring comprises a first flexible part and a second flexible part more rigid than the first flexible part, the first flexible part cooperating with said rotary member on each actuation of the device, the second flexible part bearing the transmission element.

40. (previously presented): Indicator as in claim 38, wherein the spring transforms a translation movement of the transmission element into a rotary movement of the actuation element.

41. (previously presented): A dose indicator for a fluid product dispensing device comprising:

a rotary counting wheel comprising markings indicating the number of doses dispensed or remaining to be dispensed;

an actuating member that is displaceable and rotates the counting wheel when displaced;

a transmission element that engages a moving part of the dispensing device on each actuation and is displaced transversely with respect to the markings on the counting wheel; and

a cantilever spring that amplifies the movement of the transmission element during each actuation, so that the displacement of the actuating member is greater than the displacement of the transmission element.

42. (previously presented): The dose indicator according to claim 41, wherein the transmission element is attached to a middle portion of the cantilever spring and the actuating member is attached to a distal end of the cantilever spring.

43. (previously presented): The dose indicator according to claim 41 further comprising:
a second spring disposed between the cantilever spring and the transmission element;
wherein the cantilever spring and the second spring are configured such that the cantilever spring is displaced before the second spring.

44. (new): The dose indicator according to claim 1, wherein the transmission element is displaced in a translational direction.

45. (new): The dose indicator according to claim 1, wherein a portion of the transmission element that cooperates with the moving part of the dispensing device is displaced a same distance as, and in a same direction as, a portion of the transmission element that cooperates with the amplification means.

46. (new): The dose indicator according to claim 21, wherein the transmission element is displaced in a translational direction.

47. (new): The dose indicator according to claim 21, wherein a portion of the transmission element that cooperates with the moving part of the dispensing device is displaced a same distance as, and in a same direction as, a portion of the transmission element that cooperates with the amplification means.

48. (new): The dose indicator according to claim 38, wherein the transmission element is displaced in a translational direction.

49. (new): The dose indicator according to claim 38, wherein a portion of the transmission element that engages the dispensing device is displaced a same distance as, and in a same direction as, a portion of the transmission element that engages the spring.

50. (new): The dose indicator according to claim 41, wherein the transmission element is displaced in a translational direction.

51. (new): The dose indicator according to claim 42, wherein a portion of the transmission element that is attached to the cantilever spring is displaced the same distance as, and in a same direction as, a portion of the transmission element that engages the moving part of the dispensing device.